AUTODOC CLUB

How to change CV joint on **VW PASSAT Variant (3B5)** – replacement guide

SIMILAR VIDEO TUTORIAL

This video shows the replacement procedure of a similar car part on another vehicle

Important!

This replacement procedure can be used for:
VW PASSAT Variant (3B5) 1.6, VW PASSAT Variant (3B5) 2.8 V6 Syncro/4motion

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: AUDI A6 Avant (4B5, C5) 2.4

REPLACEMENT: CV JOINT – VW PASSAT VARIANT (3B5). TOOLS YOU MIGHT NEED:

- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #13
- Drive socket # 16
- Drive socket # 17
- Drive socket # 27
- HEX bit No.H8
- Wheel impact socket #17
- Ratchet wrench
- Bush and bearing driver set
- Flat screwdriver
- Tap wrench
- Pin punch
- Clic-R collar pliers
- Hammer
- Crow bar
- Hydraulic transmission jack
- Wheel chock

Buy tools

Replacement: CV joint – VW PASSAT Variant (3B5). AUTODOC experts recommend:

- The CV joint replacement procedure is identical for the left and right CV axles.
- Replace the CV joints of CV axles in pairs.
- Please note: all work on the car – VW PASSAT Variant (3B5) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1. Secure the wheels with chocks.
2. Loosen the wheel mounting bolts. Use wheel impact socket #17.
3. Raise the front of the car and secure on supports.
4. Unscrew the wheel bolts.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. VW PASSAT Variant (3B5)

5 Remove the wheel.

6 Loosen the fastener of the driveshaft. Use a drive socket #27. Use a ratchet wrench.

7 Spread the brake pads. Use a crowbar.

8 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

9 Unscrew the caliper bracket fastening. Use a drive socket #17. Use a ratchet wrench. Use a tap wrench.

10 Remove the brake caliper together with its bracket.

Replacement: CV joint – VW PASSAT Variant (3B5). Tip:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

11 Clean all joints of the arm. Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.

12 Unscrew the upper arm fastenings. Use a drive socket #16. Use HEX No.H8. Use a ratchet wrench.

13 Remove the fastening bolt.

14 Loosen the tie rod end fastening bolt. Use a drive socket #13. Use a ratchet wrench.

15 Remove the fastening bolt. Use a pin punch. Use a hammer.

16 Loosen the tie rod end fastening bolt. Use a combination spanner #13.

17 Remove the fastening bolt.

18 Prop up the steering knuckle. Use a hydraulic transmission jack.

19 Remove the control arms. Use a crowbar.

20 Disconnect the tie rod end from the steering knuckle.

21 Remove the fastening bolt. Use a drive socket #27.

22 Detach the driveshaft from the steering knuckle.

Replacement: CV joint – VW PASSAT Variant (3B5). Tip from AUTODOC experts:

- Make sure that the drive shaft is not unloaded (when the car is jacked).

23 Clean the clamps of the CV joint boot. Use a wire brush. Use WD-40 spray.

24 Detach the clamps of the CV joint boot. Use a flat screwdriver.

25 Install and tighten the drive shaft bolt. Use a drive socket #27. Use a ratchet wrench.

26 Unscrew the fastener connecting the drive shaft to the wheel hub.

27 Remove the fastening bolt.

28 Remove the CV joint together with its boot.

29 Detach the CV joint boot.

30 Clean the CV joint mounting seat. Use all-purpose cleaning spray.

31 Remove the CV joint circlip. Use a flat screwdriver.

32 Install the CV joint boot on the CV axle. Use a flat screwdriver.

33 Install the CV joint circlip.

34 Pack the CV joint with the grease supplied in the kit.

35 Install the new CV joint. Use a bush and bearing driver set. Use a hammer.

36 Move the inner race of the new CV joint from side to side to get it ready to work.

37 Clean the splines of the drive shaft CV joint. Use all-purpose cleaning spray.

38 Install the boot on the CV joint.

39

Attach the clamps of the CV joint boot. Use a flat screwdriver. Use clic-R collar pliers. Use a hammer.

40

Install the drive shaft.

41

Connect the tie rod end to the steering knuckle.

42

Install the fastening bolt.

43

Screw in the tie rod end fastening bolt. Use a combination spanner #13.

44 Install the fastening bolt.

45 Screw in the tie rod end fastening bolt. Use a drive socket #16. Use a ratchet wrench.

46 Clean the mounting seats and the thread of the suspension arm. Use a wire brush. Use WD-40 spray.

47 Install the control arms.

48 Install the fastening bolt. Use a crowbar.

49 Screw in the fasteners of the upper control arms. Use a drive socket #16. Use HEX No.H8. Use a ratchet wrench.

50 Tighten the upper arm fastenings. Use a drive socket #16. Use HEX No.H8. Use a torque wrench. Tighten it to 40 Nm torque.

51 Tighten the tie rod end fastening bolt. Use a drive socket #16. Use a torque wrench. Tighten it to 45 nm torque.

52 Install and tighten the drive shaft bolt. Use a drive socket #27. Use a ratchet wrench.

53 Remove the support from under the steering knuckle.

AUTODOC recommends:

- VW PASSAT Variant (3B5) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

54 Install the brake caliper together with its bracket.

55 Tighten the brake caliper bracket. Use a drive socket #17. Use a torque wrench. Tighten it to 130 Nm torque.

56 Treat all joints of the arm. Treat the steering knuckle fasteners. Use copper grease.

57

Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

58

Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- Replacement: CV joint – VW PASSAT Variant (3B5). After applying the spray, wait a few minutes.

59

Install the wheel.

AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. VW PASSAT Variant (3B5)

60 Screw in the wheel bolts. Use wheel impact socket #17.

61 Lower the car.

62 Tighten the bolt connecting the drive shaft to the wheel hub. Use a drive socket #27. Use a torque wrench. Tighten it to 115 Nm torque.+180°

AUTODOC recommends:

- Important! Be sure to use new fasteners.

63 Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.

64 Remove the jacks and chocks.

Replacement: CV joint – VW PASSAT Variant (3B5). Tip:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.

WELL DONE!

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